ABSTRACT

A path error monitoring method is provided
for monitoring for an error in a communication path
in a synchronous network by using an error detection
code inserted into a first predetermined byte in the
overhead of transmitted information. The method
includes the steps of: performing an error detection
code operation for a predetermined range of the
transmitted information in a sender side; inserting
the obtained error detection code into a second
predetermined byte different from the first
predetermined byte in the overhead of the
transmitted information and sending the inserted
transmitted information; performing an error
detection code operation for a predetermined range
of the inserted transmitted information received in
a receiver side; and monitoring for an error in a
communication path between the sender side and the
receiver side by comparing the obtained error
detection code with the second predetermined byte in
the inserted transmitted information. Accordingly,
even if a redundant communication path is provided
in the middle of a communication path, it is
possible to determine whether or not there arises an
error with respect to only the redundant
communication path. As a result, it is possible to
avoid an unnecessary path switching operation due to
an error in the upper stream to the redundant
communication path.